

*Amale*

02-22-54

Attorney's Docket No.: 24736-2033  
(17082-046001) 1631

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Braun et al. Art Unit : 1631  
Serial No. : 09/687,483 Examiner : Clow, L.A.  
Conf. No. : 7859  
Filed : October 13, 2000  
Title : METHODS FOR GENERATING DATABASES AND DATABASES FOR  
IDENTIFYING POLYMORPHIC GENETIC MARKERS

Commissioner for Patents  
P.O. Box 2327  
Arlington, VA 22202

TRANSMITTAL LETTER

Sir:

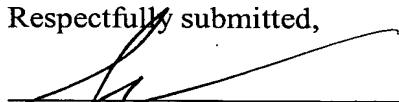
Transmitted herewith are corrected Forms PTO-1449 (3 pages), a replacement Supplemental Information Disclosure Statement and a Change of Correspondence Address Application. In the Office Action dated January 29, 2004, Examiner Clow stated that references F-N of the Form PTO-1449 (page 1) filed with the Information Disclosure Statement of March 26, 2003 and references EB, EC, ED EE, EF and EG of the Form PTO-1449 (pages 6-7) filed with the Information Disclosure Statement of February 16, 2001 were not considered and initialed because they lacked a publication date. This has been rectified and replacement Forms PTO-1449 reflecting the corrections are submitted herewith.

Also, transmitted herewith are replacement copies of an Information Disclosure Statement hand delivered on May 14, 2003, Form PTO- 1449 (2 pages), hard copies of the Foreign patents and publications, a returned postcard date-stamped received on May 14, 2003 and a copy of the check for the requisite fee. Hard copies of the U.S. Patent documents are not included per the Examiner's suggestion.

It is believed that no fee is due for filing these documents. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 06-1050, as stated below:

[ X ] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

  
Stephanie L. Seidman  
Reg. No. 33,779

Fish & Richardson P.C.  
12390 El Camino Real  
San Diego, California 92130  
Telephone: (858) 678-5070  
Facsimile: (202) 626-7796

I hereby certify that this paper and the attached papers are being deposited with the United States Postal Services as "Express Mail" Label No. EV 399294898 US in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

April 20, 2004

Stephanie L. Seidman



Attorney's Docket No.: 24736-2033  
(17082-046001)

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Braun et al.  
Serial No. : 09/687,483  
Conf. No. : 7859  
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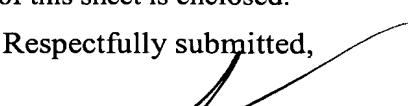
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**CHANGE OF  
CORRESPONDENCE ADDRESS**  
*Application*

Address to:  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Application Number	09/687,483
Filing Date	October 13, 2000
First Named Inventor	Andreas Braun, et. al
Group Art Unit	1631
Examiner Name	Lori A. Clow
Attorney Docket Number	24736-2033 (17082-046001)

Please change the Correspondence Address for the above-identified application to:

Customer Number: 20985

Firm or Individual Name Stephanie L. Seidman

Address 12390 El Camino Real

Address

City San Diego State CA Zip 92130

Country United States of America

Telephone (858) 678-5070 Fax (202) 626-7796

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I am the :

- Applicant/Inventor.
- Assignee of record of the entire interest.  
Certificate under 37 CFR 3.73(b) is enclosed.
- Attorney or agent of record. Registration Number 33,779
- Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number 33,779

Typed or Printed

Name Stephanie L. Seidman

Signature

Date 04/20/04

Telephone (858) 678-5070

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

\*Total of \_\_\_\_\_ forms are submitted.

FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24736-2033	SERIAL NO. 09/687,483
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE		APPLICANT Braun <i>et al.</i>	
<b>O I P E STATEMENT</b> <i>APR 20 2004</i>		FILING DATE October 13, 2000	GROUP 1631

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	TRADEMARK OFFICE	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE	
		A	5	8	3	7	8	3	2	11/17/98	Chee <i>et al.</i>	536	22.1	05/16/95
		B	5	9	2	8	8	7	0	07/27/99	Lapidus <i>et al.</i>	435	6	06/16/97

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		C	0	0	3	1	3	0	0	06/02/00	PCT			
		D	9	4	1	5	2	1	9	07/07/94	PCT			
		E	9	5	2	5	2	8	1	09/21/95	PCT			

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

F	Genbank Accession Number AF037439 (March 13, 2003)
G	Genbank Accession Number NM007202 (March 13, 2003)
H	Genbank Accession Number AF021833 (March 13, 2003)
I	Genbank Accession Number AC005730 (March 13, 2003)
J	Genbank Accession Number AW195104 (March 13, 2003)
K	Genbank Accession Number AW874187 (March 13, 2003)
L	Genbank Accession Number AF096289 (March 13, 2003)
M	Genbank Accession Number X86173 (March 13, 2003)
N	Genbank Accession Number AJ242973 (March 13, 2003)
O	Huang <i>et al.</i> , "Identification of a Novel Protein Kinase A Anchoring Protein That Binds Both Type I and Type II regulatory Subunits", <i>Journal of Biological Chemistry</i> , 272(12):8057-8064 (1997)
P	Laken <i>et al.</i> , "Genotyping by mass spectrometric analysis fo short DNA fragments", <i>Nature Biotechnology</i> , 16:1352-1356 (1998)

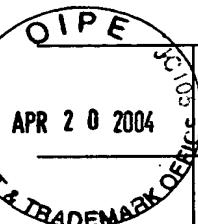
EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: METHODS FOR GENERATING DATABASES AND DATABASES FOR IDENTIFYING POLYMORPHIC GENETIC MARKERS

FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
24736-2033SERIAL NO.  
09/687,483LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE  
STATEMENTAPPLICANT  
*Braun et al.*FILING DATE  
October 13, 2000GROUP  
1645

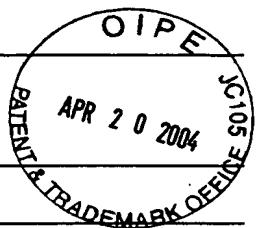
DQ	Glantz et al., Characterization of Distinct Tethering and Intracellular Targeting Domains in AKAP75, a Protein That Links cAMP-dependent Protein Kinase II $\beta$ to the Cytoskeleton, <i>J. Biol. Chem.</i> 268(17):12796-804 (1993).
DR	Goldmacher et al., Photoactivation of toxin conjugates, <i>Bioconj. Chem.</i> 3:104-107 (1992)
DS	Guatelli et al., Isothermal, <i>in vitro</i> amplification of nucleic acids by a multienzyme reaction modeled after retroviral replication, <i>Proc. Natl. Acad. Sci. USA</i> 87:1874-8 (1990).
DT	Hausken et al., Mutational Analysis of the A-Kinase Anchoring Protein (AKAP)-binding Site on RII, <i>J. Biol. Chem.</i> 271(46):29016-22 (1996).
DU	Hazum et al., A photocleavable protecting group for the thiol function of cysteine, in <i>Pept., Proc. Eur. Pept. Symp., 16th Brunfeldt, K (ed)</i> , pp. 105-110- (1981)
DV	Higgins et al., Competitive Oligonucleotide Single-Base Extension Combined with Mass Spectrometric Detection for Mutation Screening, <i>BioTechniques</i> 23(4):710-4 (1997).
DW	Higgins et al., DNA-Joining Enzymes: A Review, <i>Methods in Enzymology</i> 68:50-71 (1979).
DX	Higley et al., Processivity of uracil DNA glycosylase, <i>Mutation Research, DNA Repair</i> 294:109-116 (1993).
DY	Hinton et al., The application of robotics to fluorometric and isotopic analyses of uranium, <i>Laboratory Automation &amp; Information Management, NL, Elsevier Science publishers BV., Amsterdam, Vol. 21 no. 2/03, pp. 223-227</i> , December 1, 1993.
DZ	Huang et al., D-AKAP2, a novel protein kinase A anchoring protein with a putative RGS domain, <i>Proc. Natl. Acad. Sci. USA</i> 94:11184-9 (1997).
EA	Hubbard, M.J. and P. Cohen., On target with a new mechanism for the regulation of protein phosphorylation, <i>Trends Biochem. Sci.</i> 18:172-77 (1993).
EB	Instrumentation; "Nano-Plotter" from GeSiM, Germany, located at <a href="http://www.gesim.de/np-intro.htm">http://www.gesim.de/np-intro.htm</a> (9/7/2000)
EC	Instrumentation; "Model CRS A 255" robot "Digital Servo Gripper" "Plate Cube" system. "lid parking station" "shaker" Robocon Labor-und Industrieroboter Ges.m.b.H of Austria ("Robocon") (9/8/99)

EXAMINER

DATE CONSIDERED

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FORM PTO-1449 (Modified)		ATTY. DOCKET NO. 24736-2033	SERIAL NO. 09/687,483
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT		APPLICANT Braun <i>et al.</i>	
		FILING DATE October 13, 2000	GROUP 1645



	ED	Instrumentation; "MJ Microseal" plate sealer; Thermal Cycler Accessories: Sealing Options, Sealing Products, MJ Research, located at <a href="http://www.mjresearch.com/html/consumables/ealing/sealing_products.html">http://www.mjresearch.com/html/consumables/ealing/sealing_products.html</a> (9/8/99)
	EE	Instrumentation; "Genesis 200/8" (200 cm with including an 8-tip arm) liquid handling systems; Tecan AG of Switzerland ("Tecan"), TECAN Products for Diagnostics and Life Science, located at <a href="http://www.tecan.ch/index.htm">http://www.tecan.ch/index.htm</a> (9/16/99)
	EF	Instrumentation; Bar code systems, including one and two dimensional bar codes, readable and readable/writable codes and systems; Datalogic S.p.A. of Italy ("Datalogic") located at <a href="http://www.datalogic.com">http://www.datalogic.com</a> (9/16/99)
	EG	Instrumentation; DYNABEADS, streptavidin-coated magnetic beads; from Dynal, Inc. Great Neck, NY and Oslo Norway (9/8/99)
	EH	Instrumentation; "Multimek 96" automated pipettor; Beckman Coulter, Inc. located at <a href="http://www.coulter.com">http://www.coulter.com</a> , 09/08/99
	EI	International Search Report for International Application No. PCT/US00/08111, Date of Mailing November 13, 2000.
	EJ	Jahnsen <i>et al.</i> , Molecular Cloning, cDNA Structure, and Regulation of the Regulatory Subunit of Type II cAMP-dependent Protein Kinase from Rat Ovarian Granulosa Cells, <u>J. Biol. Chem.</u> 261(26):12352-61 (1986).
	EK	Jurinke <i>et al.</i> , Recovery of Nucleic Acids from Immobilized Biotin-Streptavidin Complexes Using Ammonium Hydroxide and Applications in MALDI-TOF Mass Spectrometry, <u>Anal. Chem.</u> 69:904-10 (1997).
	EL	Jurinke <i>et al.</i> , Analysis of Ligase Chain Reaction products via Matrix-Assisted Laser Desorption/Ionization Time-of-Flight-Mass Spectrometry, <u>Anal. Biochem.</u> 237:174-81 (1996).
	EM	Jurinke <i>et al.</i> , Detection of hepatitis B virus DNA in serum samples via nested PCR and MALDI-TOF mass spectrometry, <u>Genetic Analysis: Biomolecular Engineering</u> 13:67-71 (1996).
	EN	Jurinke <i>et al.</i> , Application of nested PCR and mass spectrometry for DNA-based virus detection: HBV-DNA detected in the majority of isolated anti-HBc positive sera, <u>Genetic Analysis: Biomolecular Engineering</u> 14:97-102 (1998).
	EO	Kario <i>et al.</i> , Genetic Determinants of Plasma Factor VII Activity in the Japanese, <u>Thromb. Haemost.</u> 73:617-22 (1995).
	EP	Klauck <i>et al.</i> , Coordination of Three Signaling Enzymes by AKAP79, a Mammalian Scaffold Protein, <u>Science</u> 271:1589-92 (1996).

EXAMINER

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THE STAMP OF THE U.S. PATENT AND TRADEMARK OFFICE AFFIXED HERETO WILL BE EVIDENCE OF RECEIPT OF THE FOLLOWING HAND DELIVERED BY MOORELAND AND MOORE ON MAY 14, 2003:

CLIENT #: 24736-2033                   SLS:EJP:kmf  
ENCLOSURES: TRANSMITTAL LETTER (in duplicate); SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT (4 pages); PTO FORM-1449 (2 pages); CITED REFERENCES; CHECK IN THE AMOUNT OF \$180.00; and RETURN POSTCARD.  
APPLICANT: Braun et al.  
SERIAL NO: 09/687,483                   FILED: October 13, 2000  
FOR: METHODS FOR GENERATING DATABASES AND DATABASES FOR IDENTIFYING POLYMORPHIC GENETIC MARKERS

PLEASE STAMP HERE (THANK YOU):

THE STAMP OF THE U.S. PATENT AND TRADEMARK OFFICE AFFIXED HERETO WILL BE EVIDENCE OF RECEIPT OF THE FOLLOWING HAND DELIVERED BY MOORELAND AND MOORE ON MAY 14, 2003:

CLIENT #: 24736-2033                   SLS:EJP:kmf  
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SERIAL NO: 09/687,483                   FILED: October 13, 2000  
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Heller Ehrman White & McAuliffe LLP  
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 San Diego, CA 92122-1246

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**HellerEhrman**  
ATTORNEYS

Main: (858) 450-8400  
Fax: (858) 587-5360



May 13, 2003

**VIA FEDERAL EXPRESS**

MOORELAND & MOORE  
2001 Jefferson Davis Highway  
Suite 407  
Arlington, VA 22202

**Re: Braun, et al. U.S.S.N. 09/687,483 filed October 13, 2000  
*METHODS FOR GENERATING DATABASES AND DATABASES FOR  
IDENTIFYING POLYMORPHIC GENETIC MARKERS*  
Our Docket No. 24736-2033**

Gentlemen:

Please deliver the enclosed documents for Art Unit 1631 to the U.S. Patent and Trademark Office on Wednesday May 14, 2003. The documents enclosed are a Transmittal Letter (in duplicate), Supplemental Information Disclosure Statement, Forms PTO-1449 (2 pages) and cited references (1 box; 2 volumes). In addition, please have the enclosed postcard date-stamped by the PTO and returned to us at your earliest convenience. We would also appreciate receiving a confirmation from you indicating that delivery of the enclosed documents has been made.

Thank you for your assistance in this matter. If you have any questions, please do not hesitate to contact our office.

Sincerely,

*Stephanie L. Seidman*

SLS:ep  
Encl.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Braun et al.

Serial No.: 09/687,483

Conf. No.: 7859

Cust. No: 24961

Filed: October 13, 2000



For: **METHODS FOR GENERATING  
DATABASES AND DATABASES FOR  
IDENTIFYING POLYMORPHIC  
GENETIC MARKERS**

Art Unit: 1631

Examiner: Clow, L.A.

**TRANSMITTAL LETTER**

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2011 South Clark Place  
Customer Window  
Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Sir:

Transmitted herewith via hand delivery are a Supplemental Information Disclosure Statement, Form PTO-1449 (2 pages), cited references and a check for requisite fee of \$180 for filing in connection with the above-identified application.

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Respectfully submitted,  
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By: \_\_\_\_\_

Stephanie L. Seidman  
Registration No. 33,779

Dated: May 13, 2003

Attorney Docket No. 24736-2033

Address all correspondence to:

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San Diego, CA 92122-1246

Telephone: (858) 450-8400

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EMAIL: sseidman@hewm.com

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Braun *et al.*

Serial No.: 09/687,483

Conf. No.: 7859

Cust. No: 24961

Filed: October 13, 2000

For: **METHODS FOR GENERATING  
DATABASES AND DATABASES FOR  
IDENTIFYING POLYMORPHIC  
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Art Unit: 1631

Examiner: Clow, L.A.



**TRANSMITTAL LETTER**

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Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

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Respectfully submitted,  
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman  
Registration No. 33,779

Dated: May 13, 2003

Attorney Docket No. 24736-2033

Address all correspondence to:

Stephanie L. Seidman

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Braun  
Serial No.: 09/687,483  
Conf. No.: 7859  
Cust. No: 24961  
Filed: October 13, 2000



For: **METHODS FOR GENERATING  
DATABASES AND DATABASES FOR  
IDENTIFYING POLYMORPHIC  
GENETIC MARKERS**

Art Unit: 1631

Examiner: Clow, L.A.

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN  
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

U.S. Patent and Trademark Office  
2011 South Clark Place  
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Crystal Plaza Two, Lobby, Room 1B03  
Arlington, VA 22202

Dear Sir:

Because this Supplemental Information Disclosure Statement is filed after receipt of a First Office Action on the Merits for the above-captioned application, the filing fee of \$180 is enclosed. If no proper payment is enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Supplemental Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form

**U.S.S.N. 09/687,483**

**Braun et al.**

**Supplemental Information Disclosure Statement**

PTO-1449 (2 pages) and the cited references are provided herewith in connection with the above-captioned application.

The documents listed on the Form PTO-1449 and supplied herewith are in the English language with the exception of document AA. This item, which is in the Japanese language, is provided with an English abstract. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following pending, published and issued U.S. and International Applications that have one or more common inventors and/or are commonly owned.

<b>U.S.S.N.</b>	<b>Filing Date</b>	<b>Publication No. or Issue No.</b>	<b>Publication or Issue Date</b>	<b>Docket No.</b>
09/796,416	02/28/01	6,500,621	12/31/02	2002L
09/879,341	06/11/01	2002-0150903	10/17/02	2002M
10/375,714	02/24/03			2002N
10/277,021	10/17/02			2003B RI
08/934,455	09/19/97	6,111,251	08/29/00	2013B
09/483,629	01/14/00	6,423,966	07/23/02	2013C
09/628,478	07/31/00			2015B
09/604,698	06/26/00			2016A
10/007,557	11/06/01	2003-0003465	01/02/03	2016D
09/307,006	05/07/99	6,558,902	05/06/03	2021B
09/074,936	05/07/98	2001-0055811	12/27/01	2021
09/834,700	04/12/01	2002-0040130	04/04/02	2035
10/037,356	10/24/01	2002-0142483	10/03/02	2046
09/802,640	03/09/01	2003-0036057	02/20/03	2048

**U.S.S.N. 09/687,483**

**Braun et al.**

**Supplemental Information Disclosure Statement**

10/403,902	03/27/03			2048B
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not assigned	04/11/03			2064PC
not assigned	05/01/03			2065PC

Additionally, documents A, B, G, I-K, and M-T listed on the Form PTO-1449 and supplied herewith are also publications of U.S. and International applications which are commonly owned and/or have one or more inventors in common.

Although these documents and information are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's

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representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

\* \* \*

Respectfully submitted,  
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Attorney Docket No. 24736-2033

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FORM PTO-1449 (Modified)

ATTY. DOCKET NO.  
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STATEMENTAPPLICANT  
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1631

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	0	0	0	9	3	9	4	01/24/02	Köster <i>et al.</i>	422	65	04/02/99
	B	0	0	4	2	1	1	2	04/11/02	Köster <i>et al.</i>	435	174	10/26/98
	C	5	6	3	5	7	1	3	06/03/97	Labowsky	250	282	01/16/95
	D	5	6	8	6	6	5	6	11/11/97	Amirav <i>et al.</i>	73	23.41	02/27/96
	E	5	8	5	3	9	7	9	12/29/98	Green <i>et al.</i>	435	5	06/30/95
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	G	6	1	1	1	2	5	1	08/29/00	Hillenkamp	250	288	09/19/97
	H	6	1	8	8	0	6	4	02/13/01	Köster	250	282	01/28/99
	I	6	2	0	7	3	7	0	03/27/01	Little <i>et al.</i>	435	6	09/02/97
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	N	6	3	0	0	0	7	6	10/09/01	Köster	435	6	01/31/00
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	P	6	4	2	3	9	6	6	07/23/02	Hillenkamp <i>et al.</i>	250	288	01/14/00
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	R	6	4	3	6	6	3	5	08/20/02	Fu <i>et al.</i>	435	6	03/12/96

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	S	9	6	3	2	5	0	4	10/17/96	PCT				
	T	9	8	1	2	7	3	4	03/26/98	PCT				

## OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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